

## United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERC United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/052,496	01/17/2002	William R. Mass	279.397US1	7282	
21186	7590 10/05/2004		EXAMI	EXAMINER	
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.			MACHUGA, JOSEPH S		
P.O. BOX 29 MINNEAPO	38 LIS, MN 55402		ART UNIT	PAPER NUMBER	
	<b>,</b>		3762		

DATE MAILED: 10/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	10/
	10/052,496	MASS ET AL.	100
Office Action Summary	Examiner	Art Unit	
	Joseph S. Machuga	3762	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet with	the correspondence ad	ldress
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI  - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic  - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory p  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a report. a reply within the statutory minimum of thirty beriod will apply and will expire SIX (6) MONTH statute, cause the application to become ABA	ly be timely filed (30) days will be considered timel HS from the mailing date of this c NDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on			
	This action is non-final.		
3) Since this application is in condition for all closed in accordance with the practice un	•	•	e merits is
Disposition of Claims			
4) ⊠ Claim(s) <u>1-47</u> is/are pending in the application 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) <u>1-47</u> is/are rejected.  7) ⊠ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction as	hdrawn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Exa	miner.		
10)☐ The drawing(s) filed on is/are: a)☐	accepted or b) objected to by	y the Examiner.	
Applicant may not request that any objection to	o the drawing(s) be held in abeyanc	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the country.  The oath or declaration is objected to by the			
Priority under 35 U.S.C. § 119			
<ul> <li>12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority docured.</li> <li>2. Certified copies of the priority docured.</li> <li>3. Copies of the certified copies of the application from the International Beauty * See the attached detailed Office action for a serior priority.</li> </ul>	ments have been received. ments have been received in Ap priority documents have been re ureau (PCT Rule 17.2(a)).	plication No eceived in this National	Stage
Attachment(s)		(070 (12)	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-94</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date</li> </ol>	8) Paper No(s)/	mmary (PTO-413) Mail Date ormal Patent Application (PTO .·	O-152)

Application/Control Number: 10/052,496

Art Unit: 3762

. 7

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 10, 14-25, 27-40 and 44-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Villaseca et al #6240317 in view of O'phelan #5383914 or Lin #5411538 and Bradshaw et al #5545188.

Villaseca et al discloses an implant having an antenna, RF transceiver and an interface connector. The reference also teaches making the housing hermetically sealed. Also disclosed is the claimed demodulator (note Figures 3 and 5.) Not disclosed by this reference is the location of the electronics.

O'Phelan discloses a pacemaker. The reference teaches the use of modules (note Figure 20) to attach additional components to the pacemaker. Lin also teaches the use of modular components to secure additional components to a pacemaker housing. This design adds flexibility to the system.

Bradshaw et al teaches the use of user-attachable connectors to secure the components of a pacemaker together.

Application/Control Number: 10/052,496

Art Unit: 3762

. j

Given these disclosures it would have been obvious to one of ordinary skill in the art to secure the RF transceiver in a modular above the battery given the teachings of either O'Phelan or Lin that teach that this design adds flexibility to the system. To use user attachable connectors to secure the components together would have been obvious given Bradshaw et al's teaching that this simplifies the design and use of the design. To adjust output to expand the range to 6 feet is considered to be an obvious design expedient based upon the designed location of the equipment relative to the patient.

Claims 6, 7, 11, 41, 42 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Villaseca et al #6240317 in view of O'phelan #5383914 or Lin #5411538 and Bradshaw et al #5545188.as applied to claims 1-5, 10, 14-25, 27-40 and 44-47 above, and further in view of Morgan et al #5476488.

Morgan discloses a telemetry system that includes the claimed amplitude modulator and amplifier (112.) The design provides reliable transmission of data.

Given Morgan et al's disclosure it would have been obvious to one of ordinary skill in the art to use a telemetry system such as that disclosed by Morgan et al in place of the one provided for by Villaseca et al to provide a reliable system.

Claims 7-9 and 11-13, 41 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable Villaseca et al #6240317 in view of O'phelan #5383914 or Lin #5411538, Bradshaw et al #5545188 and Morgan et al #5476488 as applied to claims 6, 7, 11 and 42 above, and further in view of Soykan et al #6236889.

Soykan et al teaches that amplitude, frequency or phase modulation are equivalent and acceptable alternatives (see the abstract.) Given this teaching it would have been obvious to one of ordinary skill in the art to use either amplitude, frequency or phase modulation in the telemetry system of the proposed combination to provide acceptable alternatives, each of which, have their own advantages.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph S. Machuga whose telephone number is 703-305-6184. The examiner can normally be reached on M-F 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela D Sykes can be reached on 703-308-5181. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/052,496

Art Unit: 3762

Ĩ.

Page 5

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joemady angel & Apr

> ANGELA D. SYKES SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700